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(54) Title: **CHEMOKINE RECEPTOR ANTAGONISTS AS THERAPEUTIC AGENTS**

(57) **Abstract:** The present invention provides methods and compositions to reduce immune tolerance at specific sites. In one aspect, the present invention comprises methods and compositions to reduce tumorigenicity. In an embodiment, the present invention reduces recruitment of tolerance-inducing antigen presenting cells (APCs) or their precursors to a tumor and/or tumor draining lymph node by decreasing binding of at least one tumor-associated ligand to a chemokine receptor present on the tolerance-inducing APCs or APC precursors. In an embodiment, the chemokine receptor is CCR6 and the tumor-associated ligand is mip-3 α . In another aspect, the present invention comprises methods and compositions to reduce immune tolerance to a virus. In an embodiment, the virus is HIV. The present invention further provides for the development of CCR6 antibodies and antagonists as therapeutic agents to prevent or reduce immune tolerance.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 38/00, 39/00; G01N 33/53; C07K 14/00

US CL : 424/130.1, 134.1; 435/7.1; 514/2; 530/350, 388.7

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/130.1, 134.1; 435/7.1; 514/2; 530/350, 388.7

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
WEST, keywords include antigen presenting cell, APC IDO, CCR6, MIP-3, tumor, HIV

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/17558 A2 (SCHERING CORPORATION) 15 March 2001 (15.03.2001), page 1, lines 5-15; page 2, line 31-page 3, line 10; page 3, lines 11-25 and 31-33; page 12, line 15-16, line 27.	1, 3-9, 11, 13, 32, 33, 35-42
X	US 5,885,579 A (LINSLEY et al.) 23 March 1999 (23.03.1999), column 3, lines 30-40; column 5, lines 50-67; column 17, line 39-column 18, line 26; column 18, lines 26-44.	1, 3, 4, 6, 10-18, 21, 30-33, 35-37, 43-46

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☐ See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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